

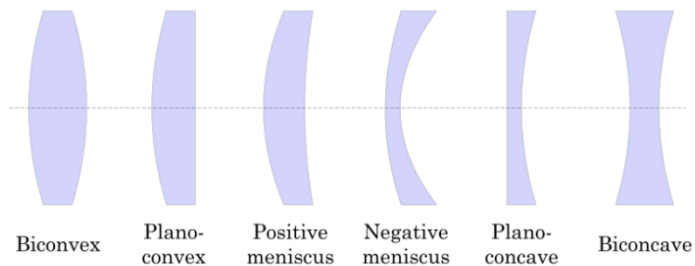
Answer Key

Part 1: Multiple Choice

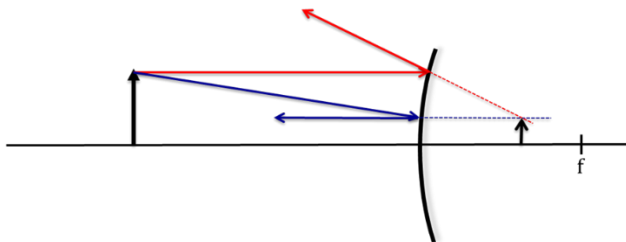
1. B
2. C
3. A
4. C
5. C
6. D
7. D
8. D
9. A
10. C
11. C
12. A
13. A
14. A
15. C
16. E
17. C
18. A
19. E
20. D

Part 2: Problems

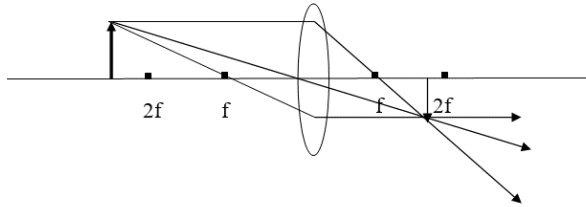
1. A. 28.13 degrees; B. 32.12 degrees
2. A. 5.714 cm; B. 16cm; C. $M = 1$
3. A. Away; B. redshift; C. 56.85 km/s



- 4.
5. A. 315.79m; B. 3.09m; C. 102.21 times
6. A. emission; B. only strontium



- 7.



8.

9. 20 cm.

10. Angel of incidence = 68 degrees; Angel of refraction = 34 degrees